

Status of Research Planning - Africa RISING West Africa

Outline

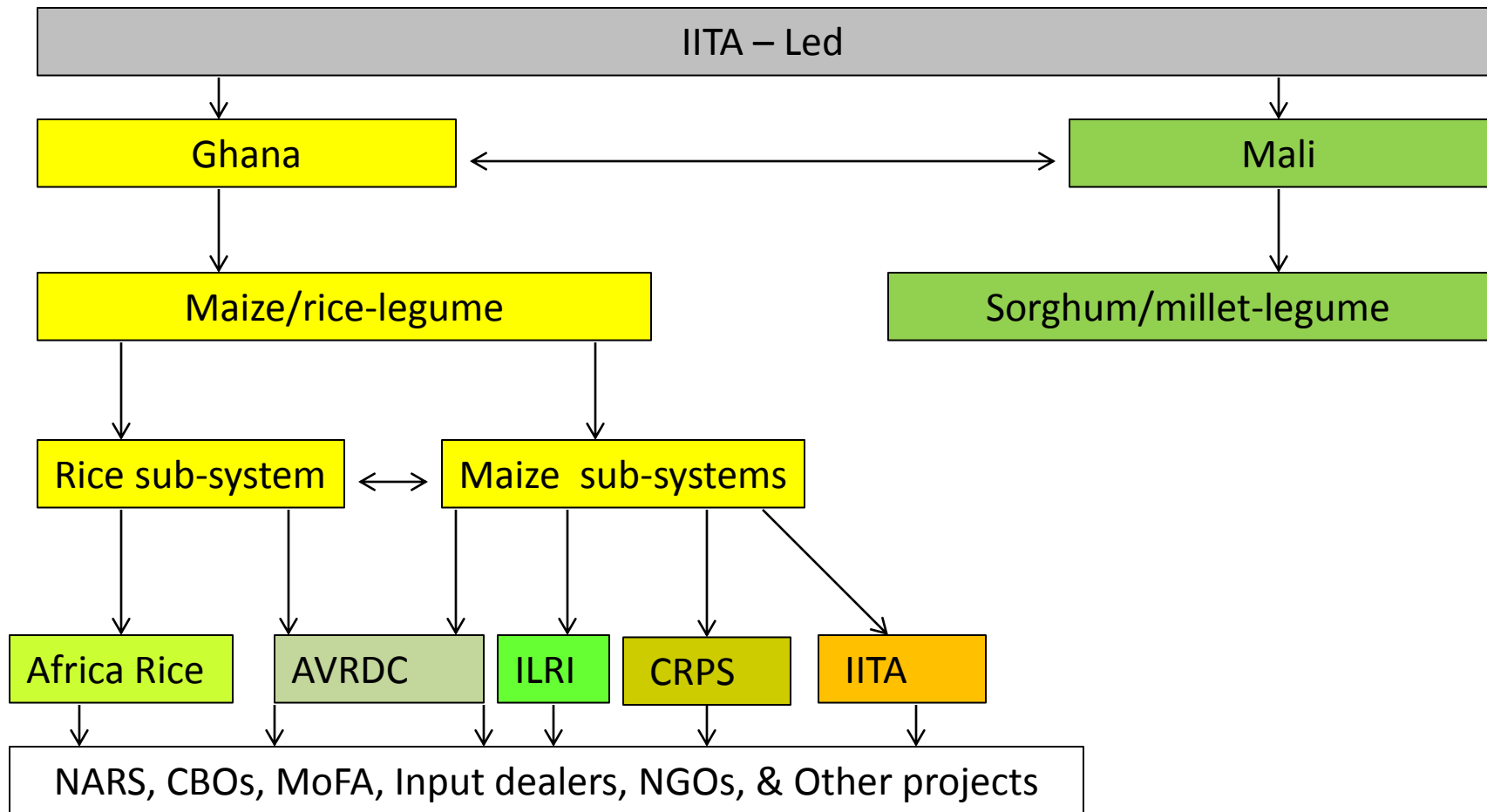
1. Project components and partnerships
2. Development of 2012 'Quick-wins' work-plan
3. Current activities - Ghana
4. Future activities -Ghana



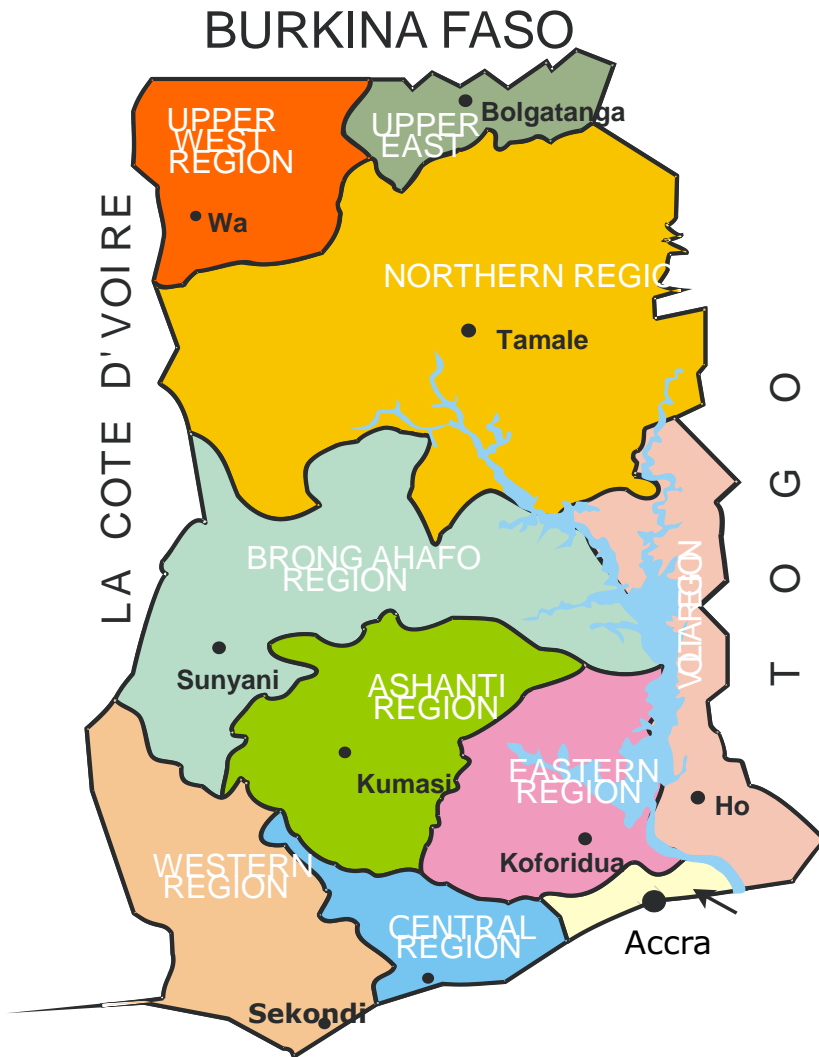
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Sustainable Intensification of Cereal - based Farming System
in the Sudano - Sahelian Zone in Ghana



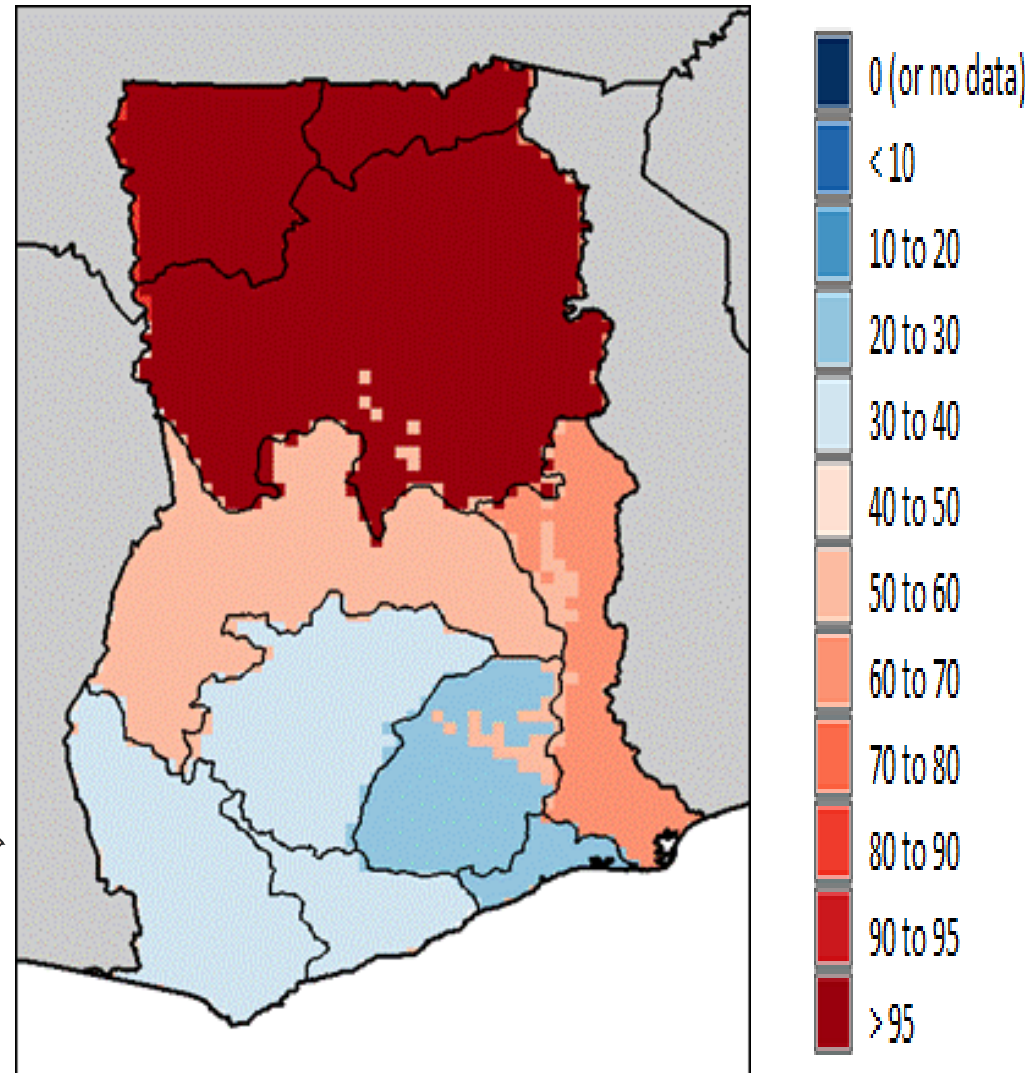
West Africa Project – Components and Partners



Project sites – Northern Region



Project location



Poverty levels (% below US\$ 2/day)

2012 'Quick-wins' Work-plan Development

Phase 1: Before February 2012		Phase 2: March to date
1.1. Inception workshop – January, Tamale		2.1 Stakeholders' workshop, March, Tamale
1.2. Partners - international		2.2 Partners – national/local
1.3. Geographical focus - regions		2.3 Location – districts and communities
1.4. Refined concept note <ul style="list-style-type: none"> • Outcomes • Outputs • Activities 		2.4 Identified Year 1 activities – 'Quickwins'; based on <ul style="list-style-type: none"> • Concept note from inception workshop • Analysis of 60 communities
1.5. Year 1 strategy – 'Quick-wins'		1.5 Implementation strategy – sub-contracts



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Development of 2012 Quick-win Workplan

- Stakeholders workshop - discussions on concept note
- Community action plan - analysis of 60 communities



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2012 Work-plan Development: Stakeholders' Workshop



Outcome 1 : Sustainable increased of whole farm systems

Outputs

1. Integrated crop and livestock production systems developed, evaluated and disseminated
2. Innovative harvest and post-harvest technologies and practices identified, evaluated and promoted.



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Outcome 2 : Improved on-farm and off-farm natural resources management

Outputs

1. Improved nutrient cycling and water use efficiency
2. Improved biomass production and enhanced carbon sequestration
3. Enhanced option of land management which will prevent on-farm and off-farm land degradation
4. Approaches and technologies for improved water and land management and use identified and promoted



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Outcome 3 : Reduced vulnerability of target population and farming systems to adverse economic and climatic changes

Outputs

1. Bio-physical, socio-economic and management options developed to reduce vulnerability
2. Options for reducing vulnerability and mitigating risk scaled up and out within regions
3. Input and output market access for male and female farmers expanded to increase household income



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Outcome 4 : Increased nutritional and economic levels of the target populations (especially women and children)

Outputs

1. Desk study of key nutritional and food safety issues in the target population
2. Capacity building and awareness campaign on nutrition issues for the target population
3. Increased availability, utilization and consumption of highly nutritious foods (fruits, vegetables, legumes, meat and milk)



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Outcome 4 : Increased nutritional and economic levels of the target populations (especially women and children) cont'd

Outputs (continued)

1. Evidence based dietary strategies for target population developed, tested and communicated
2. Management strategies for reduced mycotoxin, pesticide, and contamination with hazardous materials upscaled in target area.
3. Diversified rural enterprises for women established.



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Outcome 5 : Effective management and linkages/partnerships

Outputs

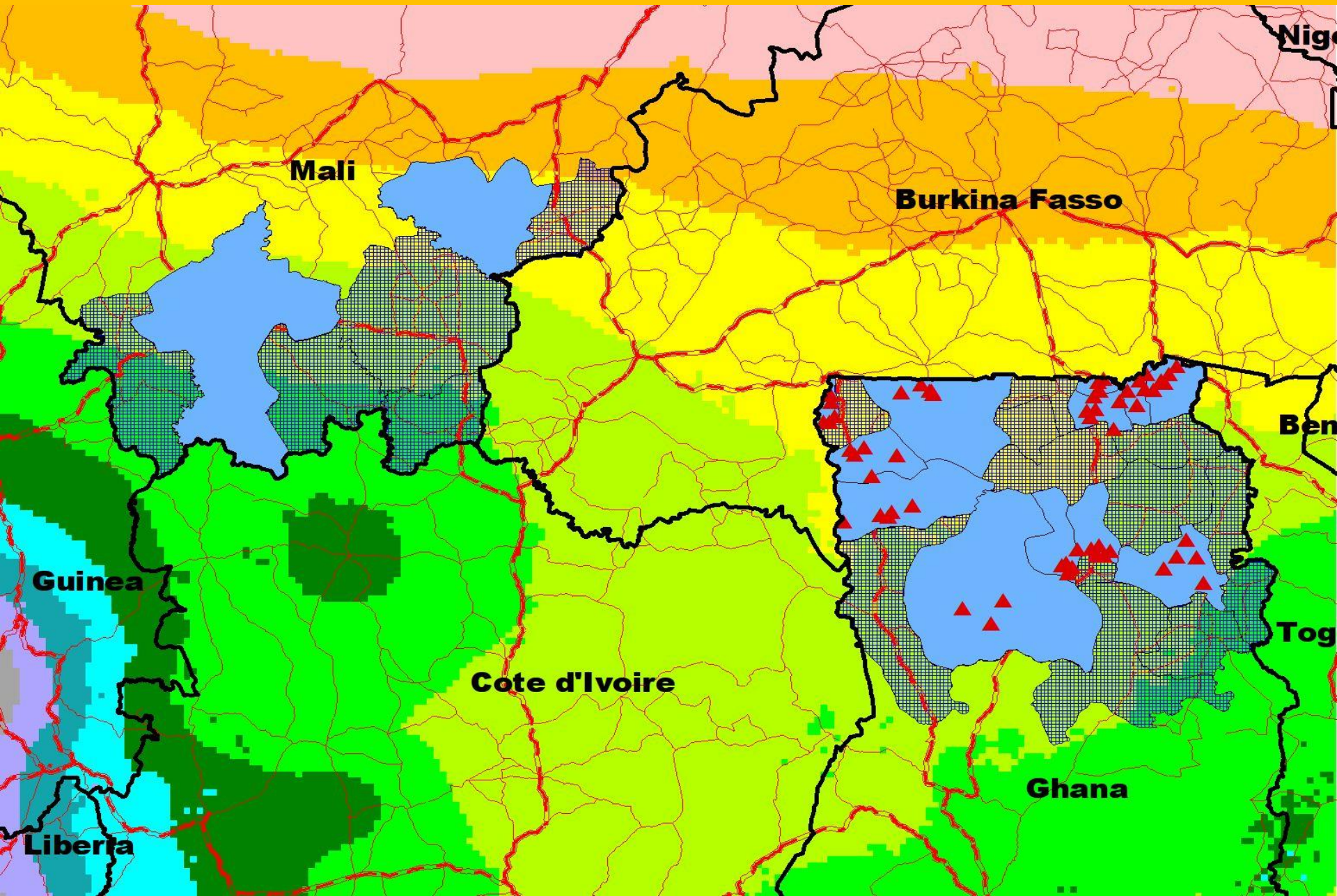
1. Research design plan completed
2. Functional partnerships, effective project management
3. Strengthened capacity of partners.



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Workshop outcomes – Districts and communities



Community Analysis – Thematic Areas

- Livelihood analysis
- Off-farm activities
- Crop list and prioritization
- Problem census and prioritization
- Market analysis
- Community resource maps
- Soil type and soil fertility management options
- Seasonal calendar
- Copping strategies



Work-plan development - Community analysis



Community Analysis



Community Analysis



Community Analysis



Community Analysis – Key Constraints

- Low and inefficient production
 - Limited access to improved technologies
 - Low and erratic rainfall, recurrent drought
 - Lack of inputs – seed, fertilizer, tractor, credit
 - Inappropriate tillage systems, storage practices
 - Poor soil fertility, pest and diseases
- Overgrazed communal grazing lands
- Lack of enabling institutions and policies
- Weak institutional and individual capacity



Implementation Strategy - Sub-contracts

1. NARS

- Savannah Agricultural Research Institute (SARI)
- Animal Research Institute (ARI)
- Soil Research Institute (SRI)
- University of Development Studies (UDS)
- University of Science and Technology (KNUST)
- Wisconsin International University College (WIUC)

2. Ministry

- Food and Agriculture (MoFA), Women in Agric. Dev.
- Health Services (MoF), Nutrition Department

3. CGIAR/Others

- CGIAR –ILRI, IWMI
- Others – Africa Rice, AVRDS
- Kansas State University (SANREM-CRPS)
- NGOs – Ghana Seed Producers Association (SeedPAG)

Current Activities – Technology development, on-station

1. Drought tolerant maize responses to nitrogen
2. Soybean variety and management effects on yields
3. Cowpea responses to planting date and spraying
4. Testing of integrated soil fertility management options



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On-station Evaluation of Agronomic Options



Current Activities – On-farm demonstrations

		Number of farmers			Total
Crop		Northern	Uwest	Ueast	
Maize	Extra-early	59	59	59	177
	Early	69	69	69	207
	Medium	45	45	44	134
Soybean		13	13	12	38
Cowpea		8	8	7	23
Total		194	194	191	579



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Current Activities – On-farm Evaluation



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IITA

**Farmer Participatory Evaluation of
Promising Maize, Cowpea and Soybean
Lines**

Kpachi Village



Current Activities- On-farm evaluation



Current Activities – Intensification of Guinea fowl production



Current Activities – Wet season feeding management



Current Activities – Seed Multiplication



2012 Workplans – Community Seed Production

	Area (acres)			
Crop	Northern	Uwest	Ueast	Total
Maize	27	33	31	91
Cowpea	8	8	4	20
Soybean	6	9	3	18



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HERITAGE SEEDS CO. LTD

BOX 1596

TAMALE

NYOHINI ROAD

OPP. GHANA FIRE SERVICE

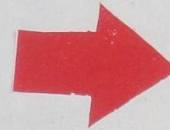
MOTTO: QUALITY SEEDS FOR HIGH PRODUCTION

Email: heritage.zdd@gmail.com

MOBILE No. 0543370501



0277792881



Current Activities – Testing water harvesting options



Tied ridge that captures rainwater



Discussion of rain records with farmer

Capacity Building

Short-course/Training	Lead Institute
Integrated crop-livestock production	ILRI
Experimental design and data analysis	WIUC
Household cereal and legume processing	UDS/MOFA/MOH
Food safety – marketers, processors	UDS/MOFA/MOH
Irrigation techniques	IWMI
Crop production – extension agents	SARI



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Current Activities – Training Researchers



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IITA



Experimental Data and Analysis
Bigiza Court Hotel, Tamale
16 - 27 July, 2012

27/07/2012 13:51

Current Activities - Training Extension Agents



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Current Activities – Nutritional Campaign



30/8/2012

11:57am

Current Activities – Training Women



Current Activities – Nutritional Campaigns



29/8/2012 4:49pm

Future Activities

1. **Build multi-stakeholder partnerships and research-for-development platforms**
2. **Identify and characterize ‘development domains’ and action research sites**
3. **Systems/situation analysis – resources, practices, constraints and opportunities**
4. **Document, describe and rank available systems intensification (SI) options**
5. **Participatory testing of SI technologies to increase on-farm productivity**
 - Crop – varieties, cropping systems etc.
 - Livestock – species and management systems
 - Integrated crop/tree-livestock systems
 - Integrated pest/soil fertility management
 - Post-harvest options
 - Efficient seed systems
 - Alternative crops



Future Activities

- 6. Improve on-farm soil and water resources management**
- 7. Test conservation tillage and soil management practices**
- 8. Test improved irrigation technologies for intensive cropping**
- 9. Increase nutritional and economic levels of farm-households**
 - Characterize the nutritive value of food consumed
 - Evaluate nutritional status and nutrient intake
 - Undertake nutrition education
 - Increase availability and use of nutritious food products
- 10. Promote rural enterprises – especially for women**
- 11. Enhance capacity of national research and technology transfer programs**
 - Train farmers
 - Train extension and development staff
 - Graduate research training



Future Activities

12. Facilitate access to input and output markets

- Conduct value chain analysis to identify market niches.
- Promote institutional arrangements that link farmers to markets

13. Scale-out/up research outputs

- Farmers
- Research and extension staff
- Policy makers.

14. Evaluate policy and institutional options that enable widespread adoption of SI

- Socio-economic assessment of new technologies and production options
- Gender specific assessment of technologies and their implication for rural women
- Adoption studies - rapid appraisal and formal surveys of factors affecting adoption
- Inventory of current policies and analysis of their effects on production choices, farm income, input use and water and soil resources use.

15. Monitor and evaluate impact of SI technologies

16. Assess impact of SI technologies – ex ante and ex-poste



Wise men sleep
awake

